

FILE NOTATIONS

Entered in File
 Location
 Card Indexed
 ✓

Checked by Chief
 Approval Letter
 Disapproval Letter
 067
 12-13-74

COMPLETION DATA:

Date Well Completed

Location Inspected

SW..... WW..... TA.....

Bond released

SW..... OS..... PA.....

State or Fee Land

LOGS FILED

Driller's Log

Electric Logs (R.L.)

..... I..... Incl. I..... CR-N..... Micro.....

..... CR..... Inc..... MI-L..... Sonic.....

Log..... CCLog..... Others.....

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☒GAS
WELL ☐

OTHER

SINGLE
ZONE ☐MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Bridger Petroleum Corp.

3. ADDRESS OF OPERATOR c/o Helton Engineering, Inc.

210 C. A. Johnson Bldg., Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

1320' FSL, 1320' FEL, C SE $\frac{1}{4}$ Sec. 15

At proposed prod. zone

Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

43 miles west of Milford, Utah on State 21

15. DISTANCE FROM PROPOSED*

1320'

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drig. unit line, if any)

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,

OR APPLIED FOR, ON THIS LEASE, FT.

None

16. NO. OF ACRES IN LEASE

2560

17. NO. OF ACRES ASSIGNED
TO THIS WELL

80

19. PROPOSED DEPTH

12,000

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5205' GR

22. APPROX. DATE WORK WILL START*

December 20, 1974

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 $\frac{1}{2}$	13-3/8	48	1200	to surface (1250sx)
12 $\frac{1}{2}$	9-5/8	36 & 40	5000	1000 ft above setting depth (350 sx)
8-3/4	7	26 & 29	10000	1000 ft above setting depth
6-1/8	4 $\frac{1}{2}$	11.6	12,000	full length (200 sx) (170 sx)

- Set 13-3/8" casing @ 1200 ft. and cement to surface
- Install 12" nom. 900 series BOP and pressure test same. Check BOP's daily and record on tour sheets
- Drill 12 $\frac{1}{2}$ " hole to penetrate 100 ft of Ely ls at an estimated depth of 5000' Run electric logs.
- Set 9-5/8" intermediate casing at TD and cement to 4000 ft.
- Drill 8-3/4" hole to 50' above the top of the Guilmette. Run 7" liner and cement 1000' above TD at est. depth of 10,000 ft.
- Drill 6-1/8" hole into Guilmette, log and test
- If productive run 4 $\frac{1}{2}$ " liner.
- If unproductive plug in accordance with USGS and State of Utah requirements

0.3/1000' OK

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. AGENT FOR OPERATOR

SIGNED

Allan Mankin

TITLE

V. P.

DATE

Dec 11/74

(This space for Federal or State office use)

PERMIT NO.

43-001-30001

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

WF

*See Instructions On Reverse Side

Helton Engineering, Inc.
CONSULTING PETROLEUM ENGINEERS AND GEOLOGISTS

SUITE 210 - C.A. JOHNSON BLDG. • 509 17TH STREET • DENVER, COLORADO 80202
TELEPHONE (303) 571-1026

December 12, 1974

Utah Division of Oil & Gas Commission
1588 West North Temple
Salt Lake City, Utah 84116

Attention: Mr. Cleon B. Feight, Director

Re: Bridger Federal #1
C SE $\frac{1}{4}$ Sec. 15, T26S., R17W
Beaver County, Utah
Exception for Spacing

Gentlemen:

Attached are the Application for Permit to Drill for the subject well, the Development Plan for Surface Use (12 Point Program), the Supplement to Surface Use Plan (7 Point Program) and Survey Plat of proposed location.

As we have already filed the above with the U.S.G.S. in Salt Lake City Utah, and the Bureau of Land Management of Fillmore, Utah have inspected the subject location, Bridger Petroleum Corp. requests an exception to the normal drilling spacing requirements based on the following:

- (a) Bridger Petroleum Corp owns 2560 acres in the Federal lease numbered U-22341. As acreage adjacent to the proposed well location is owned by Bridger Petroleum Corp., the proposed location should not interfere with possible production of other operators.
- (b) Signal Drilling Rig #11 is presently moving to the location. As drilling rigs are difficult to obtain at present, we have been essentially forced to use their rig and make the necessary contractual commitments.
- (c) Prior to complete arrival of the rig, we also require the time to drill a water well on location, dig the mud reserve pits, build the required gate through the

Mr. Cleon B. Feight
Utah Div. of Oil & Gas Commission

Page 2

barbed wire fence, and drill the rathole and mouse-hole for the rig using a dry hole (rathole) driller.

As indicated, time is of the essence and we sincerely apologize for not adhering to the normal spacing regulations for an oil well in the State of Utah. Geologically, the well was designated to be in the center of Section 15 and subsequently all permits, etc. were filed accordingly.

Thank you.

Very truly yours,



Allan P. Markin

AM:jh
encl/

file

December 6, 1974

U.S. Geological Survey
8426 Federal Building
Salt Lake City, Utah 84138

Re: Bridger Petroleum Corp.
Federal #1
Sec. 15, T. 26S., R. 17W.
Beaver County, Utah

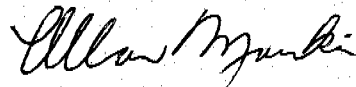
Gentlemen:

With respect to the above, attached are the following:

- Application for Permit to Drill
- Development Plan for Surface Use (12 Point)
- Equipment Use Plan (7 Point)
- Survey Plat of proposed location

Please contact the undersigned if further information is required.
Phone 303-571-1026. Thank you.

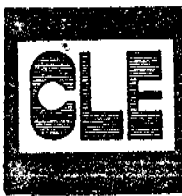
Very truly yours,



Allan P. Markin
Petroleum Engineer
Agent

AM:jh
Encls/

cc: Bridger Petroleum Corp.



PROJECT

Well site location of "Bridger Federal #1"
for Bridger Petroleum Corporation

JOB NO.

DATE

CALC. BY

Tas

CHKD. BY

PAGE

OF 1

Center of Sec. 15, T.26 S., R.17W., S.L.M.

N 89° 58' W

2631.9'

East 1/4 Corner.
BLM Brass Cap

2640.0'

2640.0'

Well Site Location for the
"Bridger Federal No. 1" is at
the approximate center of the
S.E. 1/4 of Sec. 15, T.26 S., R.17W., S.L.M.,
Beaver Co., Utah.

Well Site
Elevation 5205'N 89° 58' W
1315.0'

247.49' Typical

Offset stake, typical
of 4 set.
175' Typical

N 0° 04' W

1320.0'

N 0° 01' W

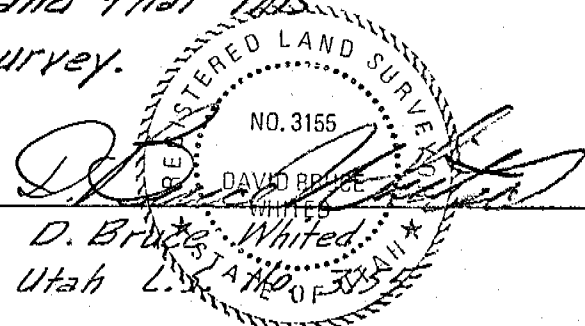
South 1/4 Corner.
BLM Brass Cap

N 89° 58' W

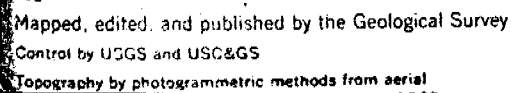
2629.8'

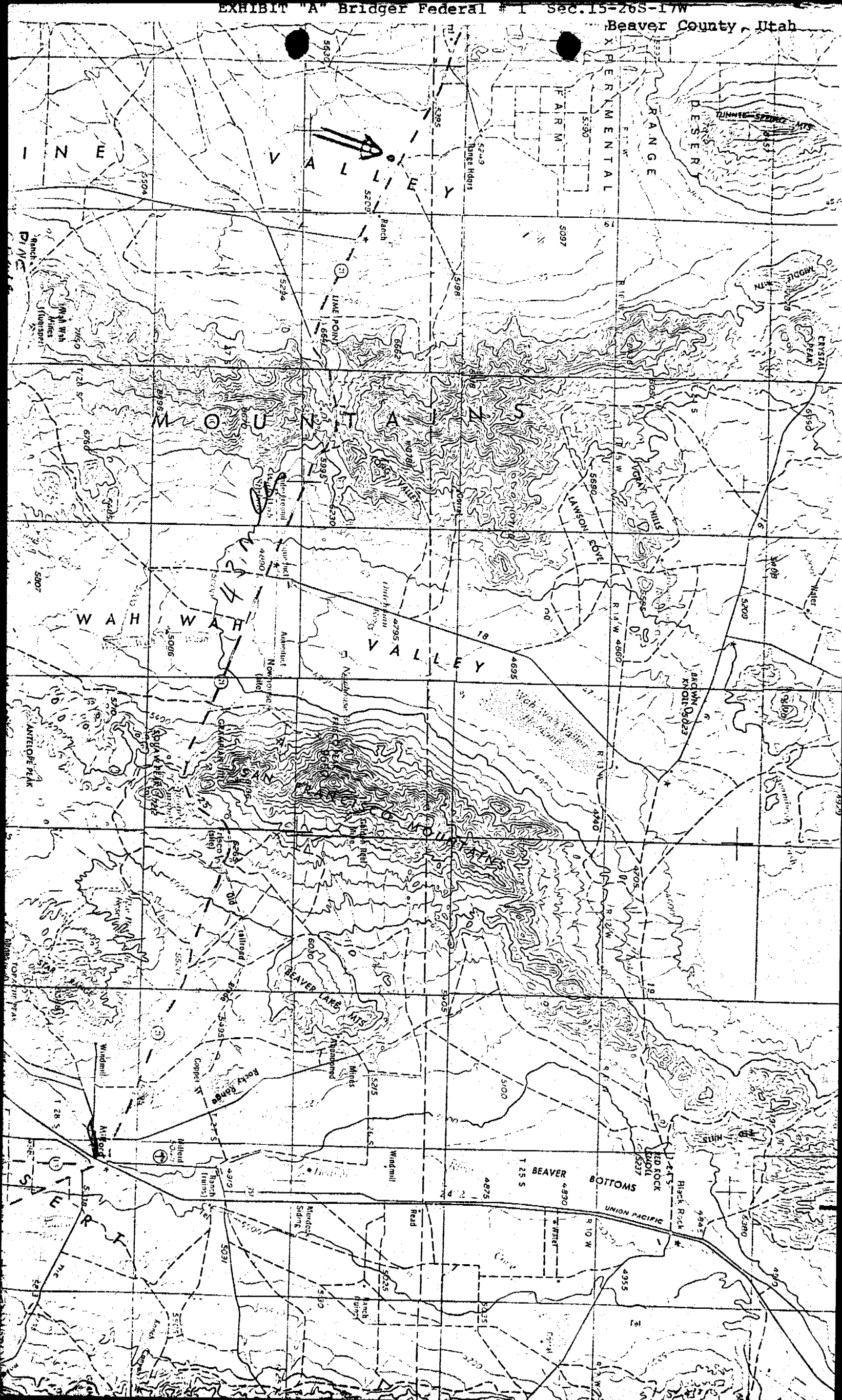
S.E. Corner of Sec.
15. BLM Brass Cap
Elevation = 5198'
from U.S.G.S. quad.
map.N
Scale: 1" = 500'

I, D. BRUCE WHITED, a registered land surveyor
of the state of Utah, do hereby certify that I have
supervised the survey shown hereon and that this
drawing correctly represents said survey.



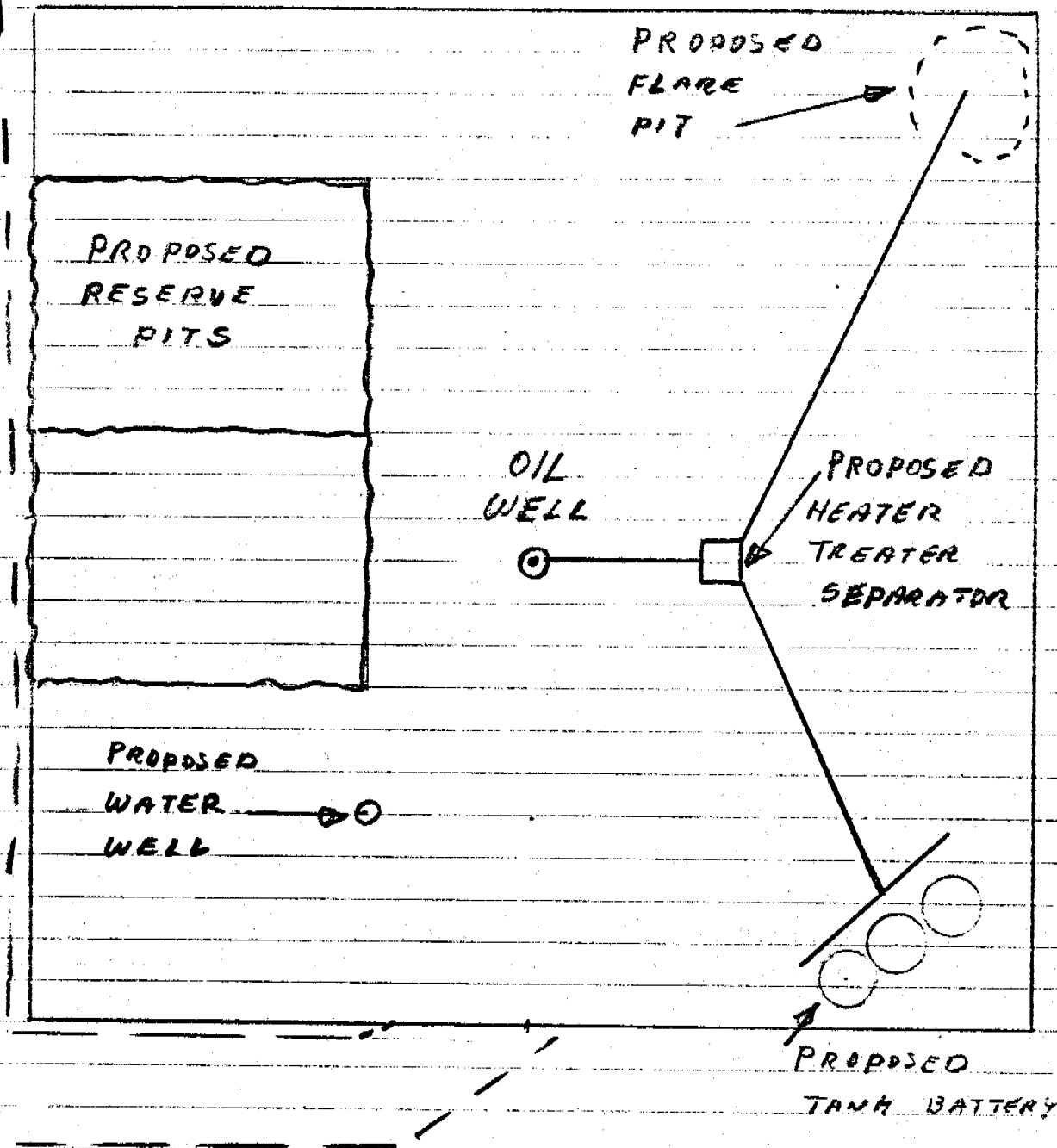
Bridger Federal #1
Sec. 15, T26S, R17W
~~Beaver County, Utah~~





ESTIMATED FORMATION TOPS

Quaternary	0
Tertiary	500
<u>Permo-Pennsylvanian</u>	
(Ely Limestone)	5000
<u>Mississippian</u>	
Chainman Shale	8300
Joanna Limestone	9100
Pilot Shale	9500
<u>Devonian</u>	
Guilmette	10000
T.D.	12000



SCALE: 1" = 50'
BY: A.P.M.

BRIDGER FEDERAL #1
PROPOSED LOCATION OF TANK BATTERY
&
FLOWLINES

SIGNAL DRILLING COMPANY INC.

F. M. STEVENSON, Chairman
E. S. CALVERT, JR., President
R. M. TAYLOR, Drilling Engineer

FLOYD MERCER, Vice President
Phone (307) 235-5751
Mobil (307) 263-4803

1200 SECURITY LIFE BUILDING
DENVER, COLORADO 80202
Phone (303) 244-2411
CASPER, WYOMING

RIG NO. 11

DRILLING RIG SPECIFICATIONS

(Rig Layout on Reverse Side)

BILL SUMMERS, Drilling Supt.

Rig Supt. *CARL BAKER*

Red Lander Milk

RIG National 80-B Drawworks with 3-engine compound, 2-pump drive, Parkersburg 46' single-hydromatic brake.

POWER 3 - Superior PTD-6 Super diesel engines rated at 1400 intermittent HP @ 1000 RPM.

PUMP NO. 1 IDECO MM-1000-GB (7 1/2" x 16") - 1000 HP.

PUMP NO. 2 National C-350 (7 3/4" x 18") - 600 HP w/ Mattco H.P. Fluid end.

MAST 133' Ideco Full View, 645,000 lb. capacity with 16' substructure.

DRILL PIPE 13000' of 4 1/2" Grade E with 6 1/4" OD x H Flashweld Tool Joints.

DRILL COLLARS As required. ; 6 1/4"; 6 1/2"; 7"; OD.

BOP EQUIPMENT 1 - ~~12'~~ Series 900 Shaffer hydraulic double gate.
1 - ~~12'~~ Series 900 GK Hydril.

MUD TANKS 4 - Steel mud pits 800 bbls. total capacity equipped with 4 Tier RVS Shaker.

TANKS 1 - 8' x 8' x 40' 450 bbl. capacity.

LIGHT PLANT 1 - 50 KW (AC) Generator. 1 - 25 KW (AC) Generator.

LIGHT STRING 1 - String Rig-A-Lite vapor-proof lights complete with vapor-proof flood lights.

HOUSING Deckard steel housing. 2 - 7' x 16' steel doghouses. 1 - 8' x 16' change house. 1 - 26' trailer house.

BOILER 1 - ~~40~~⁷⁰ HP boiler with steam heaters.

AUXILIARY EQUIPMENT 1 - Mud desilter with Low Pressure Mud Mixing System.
1 - Automatic driller.
1 - Hydril BOP accumulator with remote control.

Rig can efficiently drill to 14000' with 4 1/2" drill pipe, 17000' with 3 1/2" drill pipe.

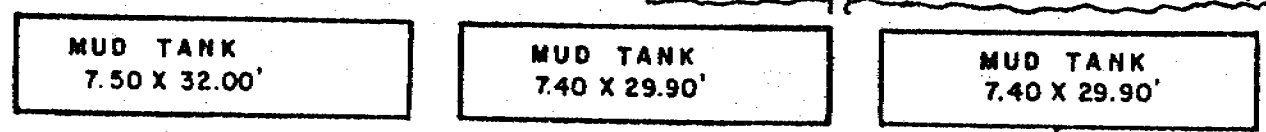
September 1974



EXHIBIT 50

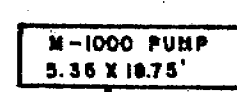
N

EDGE OF
RESERVE
PIT

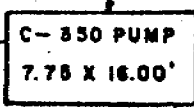
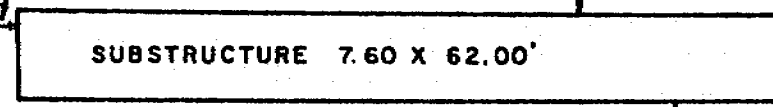


DRILLING
PAD WILL
BE
COMPACTED
SURFACE
AREA
IS FLAT

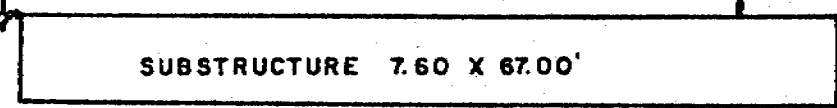
38.00'



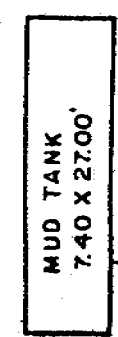
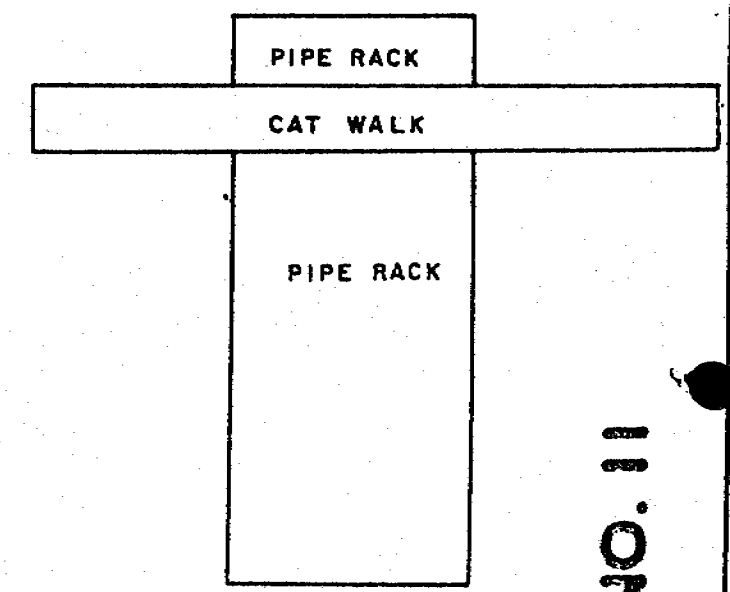
2.65'



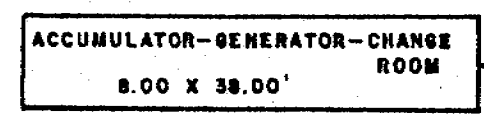
1.50'



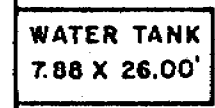
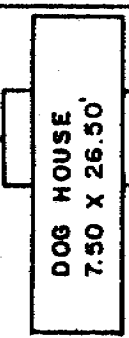
12.65'



7.50'



10.00'



GROUND LEVEL TO TOP OF KELLY BUSHING = 19 FEET

SCALE: 1/16 INCH = 1 FOOT

100'

175'

RIG NO. 11

BRIDGER PETROLEUM CORPORATION

950 THREE CALGARY PLACE, 355 4TH AVENUE SOUTHWEST, CALGARY, ALBERTA T2P 0J1
TELEPHONE (403) 262-1135

November 27, 1974

Helton Engineering Inc.
210 Johnson Building
Denver, Colorado 80202

Attention: Mr. Al Markin

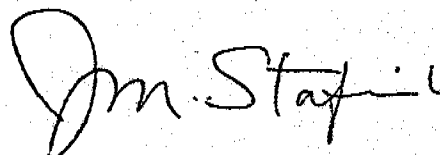
Gentlemen:

Re: Federal #1 SE/4 Sec. 15, 26S, 17W
Beaver County, Utah

Pursuant to our conversation Bridger hereby authorizes Helton Engineering Inc. to act as agent for Bridger Petroleum Corporation for drilling of the captioned well. This letter gives you authority to proceed with surveying, well permit application etc. on our behalf.

Yours very truly,

BRIDGER PETROLEUM CORPORATION



J. M. Stafinski
Production Manager

JMS:ek

December 13, 1974

Bridger Petroleum Company
210 C.A. Johnson Building
Denver, Colorado 80202

Re: Well No. Federal #1
Sec. 15, T. 26 S, R. 17 W,
Beaver, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to well is hereby granted in accordance with Rule C-3(c), General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

CLEON B. FEIGHT-Director
HOME: 466-4455
OFFICE: 328-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling.

The API number assigned to this well is 43-001-30001.

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

CLEON B. FEIGHT
DIRECTOR

CBF:sw
cc: U.S. Geological Survey

SUMMARY OF ENVIRONMENTAL IMPACT EVALUATION

12/13/74

Bridge Petroleum Co
Well No 1, Sec 15-
26S-17W, SLB & M
Beaver Co., Utah
Lease U-22341

George Cropper - BLM
Jim Kohler - Fillmore

Allan Martin - Bridge
Ed Guyan - USGS
SLC

☒ - Enhances

☐ - No Impact

☒ - Minor Impact

☒ - Major Impact

Construction	Pollution	Drilling Production	Transport Operations	Accidents	Others
Roads, bridges, airports	Burning, noise, junk disposal	Well drilling	Trucks	Spills and leaks	
Transmission lines, pipelines	Liquid effluent discharge	Fluid removal (Prod. wells, facilities)	Pipelines	Operational failure	
Dams & impoundments	Subsurface disposal	Secondary Recovery	Others		
Others (pump stations, compressor stations, etc.)	Others (toxic gases, noxious gas, etc.)	Noise or obstruction of scenic views			
		Mineral processing (ext. facilities)			
		Others			

Forestry					
Grazing	/	/	/	/	/
Wilderness	/	/	/	/	/
Agriculture					
Residential-Commercial					
Mineral Extraction	0		00	0	/
Recreation	/	/	/	/	/
Scenic Views	/	/	/	/	/
Parks, Reserves, Monuments					
Historical Sites ^{NONE KNOWN}					
Unique Physical Features	N/A	N/A	N/A	N/A	/
Birds	N/A	N/A	N/A	N/A	/
Land Animals	N/A	N/A	N/A	N/A	/
Fish					
Endangered Species ^{NONE KNOWN}					
Trees, Grass, Etc.	/		/	/	/
Surface Water			/	/	/
Underground Water	/	/	/	/	/
Air Quality		/	/	/	/
Erosion	/	/	/	/	/
Other					
Effect On Local Economy		00	0	0	/
Safety & Health	0	/	0	/	/
Others					

cc: BLM - Fillmore

Paul Burchall

Reg. Mgr. - Denver

File

Lease U-2241

Bridger Petroleum Corp.

Well No. & Location Well No. 1, C. SE 1/4 Sec. 15-26S-17W S1B6M
Beaver Co., Utah

ENVIRONMENTAL IMPACT ANALYSIS - ATTACHMENT 2-B

1. Proposed Action

- 1) Drill a 12000 ft oil & gas test well utilizing rotary tools & a water base drilling fluid.
- 2) Construct a 300ft x 300ft drill site & dig 100' x 150' reserve pit within the drill site area.
- 3) Access to drill site will be over about 1/2 mile existing unimproved dirt road from jct w/ Hwy 21 then over a crawler tractor track to site about 1/4 mi. No new road construction unless there is inclement weather.

2. Location and Natural Setting (existing environmental situation)

Proposed drill site falls about 1/2 mile southerly from State Hwy No. 21 in central Pine Valley on a flat alluvial plain. The Wah Wah Mountains lie 8-9 miles east of the proposed site & the Needle Range falls about 15 miles to the west. The fine sandy & clay soils support a sparse vegetative cover of white sage, ~~seta~~ Shadscale & Helopteran. Animal life consists of small rodents, jack rabbits & few scattered antelope herds within the valley. Bird life consists of predatory birds - hawks, ravens, eagles - and other small birds - larks, sparrows, etc. Area is arid to semi-arid climate. Maximum of 7-9" rainfall annually. There is a small wash about one mile from the location. Pollution potential on the flat valley floor is very minimal.

There are no ~~and~~ known endangered species & no evidence of archaeological or historical sites on the surface.

3. Effects on Environment by Proposed Action (potential impact)

- 1) About $\frac{1}{2}$ mile of access road ~~to the~~ from Hwy 21 to the drill site may have to be improved with wet (snow & rain) weather to maintain access to the site. No surface soil disturbance for road construction will be necessary without inclement weather.
- 2) Induced & accelerated moderate erosion due to traffic over the unimproved access from Hwy 21 to drill site. Erosion by wind would exceed water erosion. Prevailing winds are from South or Southwest. A portion of existing access road runs SW-NE.
- 3) Audible intrusion ~~of~~ of the area due to drilling operations over a 30-60 day period.
- 4) Visual intrusion of natural setting as viewed by highway travelers on a temporary basis -
- 5) Slight disturbance of livestock in area.
- 6) Slight impact on ground ^{water} due to withdrawal from proposed water well - Estimate 25,000 bbls of water would be required to drill the proposed 12,000 ft test. Water well would be retained for beneficial use in the area. Short term operation.

4. Alternatives to the Proposed Action

- 1) Re location of the proposed would have little or no effect to minimize environmental impacts.
- 2) Hauling water from another source over drilling a water well for drilling operations would require 2-3 other sources on an alternate basis. These other sources supply stock water. Use from these sources would be competitive with livestock.
- 3) Distance for hauls of water for drilling purposes and the additional of other unimproved roads would create additional impacts.

5. Adverse Environmental Effects Which Cannot Be Avoided

- 1) Induced & accelerated erosion over 1/2 mile
unimproved access road from Hwy 21.
- 2) Impact on ground water using an on site
water well for drilling purposes - Short term impact.
Impact is minor over short term
- 3) Audible & visual intrusion over a short term
- 4) Loss of vegetation over drill site & a
change of vegetative cover with reseeding.
Exposure to wind erosion of the drill site until
vegetative cover restored. Minor impact w/ area
- 5)

6. Determination

(This requested action ~~does~~ (does not) constitute
a major Federal action significantly affecting the
environment in the sense of NEPA, Section 102(2) (c)).

Date Inspected

12/13/74

E. L. Sweeney

Geological Survey

~~Casper District~~

~~Casper, Wyoming~~

Salt Lake City Distr.

DEVELOPMENT PLAN FOR SURFACE USE

Bridger Petroleum Corp.

Lease No. U-22341

Bridger Federal #1

C SE $\frac{1}{4}$ Sec. 15 T26S, R 17W

(1320' FSL, 1320' FEL)

Beaver County, Utah

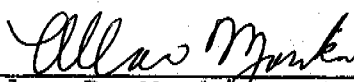
1. See Attached Exhibit "A" for existing road from Milford, Utah, 43 miles west on paved State 21 highway.
2. Access road is shown on Exhibit "B". Approximately 1500' of new road (20' wide) will be required as shown with no blading of new road required. It is also proposed to build an exit from the State 21 highway to the existing field road. The access would require an average of 1' of fill for a distance of 30'. At the south edge of the road allowance it is also proposed to build a barbed wire gate 30' wide, using triple gate posts, spaced approximately 5' apart on each side of the gate.
3. There are no existing oil or gas wells in the area.
4. Lateral roads are shown on Exhibit "B".
5. Location of proposed tank battery and flow lines are shown on attached Exhibit "C". There are no existing tank batteries or flowlines within 1/2 mile radius.
6. Drilling of a water well is proposed on the drillsite. Depth to water is projected at 450' with a supply expected of approximately 20 gpm. If the supply is not adequate, permission has been obtained from Mr. Rulan Eyres of Minersville to use some of Woods & Eyres several water supplies in the area as follows:
 - (a) Woods (Cow Camp Well): Requires pump motor but rate of 15-20 gpm is expected. Has 35,000 gallon reservoir presently fed by a piepline from the BLM water system.
 - (b) Pine Grove: Rate of approximately 400 gpm from spring located beside the Woods-Eyres ranch Sec.29, T28S., R. 16W.
 - (c) Reservoir: Located in Sec. 17, T26S., R17W is a reservoir fed by the BLM watering system. Rate is approximately 10-12 gpm.All of the above water supplies, may be used as long as the cattle water supply is not endangered. Another water well exists in Sec. 18, T25S., R17W, and is owned by Mr. J. Deardan of Garrison, Utah. The possibility of using this supply exists but permission has not been obtained to date. Mr. Deardan has been difficult to reach concerning the permission. The rate of this well has been estimated at 60-90 gpm, but this has not been verified. A special land use permit has been submitted to the BLM in Fillmore, Utah requesting permission to drill the water well.
7. Earthen reserve pits will be provided for containing drill cuttings and waste drilling fluids and will be backfilled after sufficient drying. While pit is drying a barbed wire fence will be placed around the pits. Trash and garbage will be contained in a small separate earthen pit and burned as practical and later backfilled.
8. No camp is planned.
9. No airstrip is planned, but for emergency reasons only, the Beaver County Commission will be contacted to obtain permission to land small airplanes on the county road approximately 7 miles east of the drill site. This road enters State 21 highway in Sec. 35, T.26S., R16W.
10. Exhibit "D" Rig Layout is attached. The rig direction will be such as to take advantage of prevailing winds for engine cooling.
11. Any top soil removed will be stockpiled for future use in restoring the disturbed area. Approximately 300' x 300' will be reseeded with appropriate native grasses as specified by the BLM.
12. The terrain at the well location is flat. The vegetation consists of sparse white sage (approximately 46" high) and sparser halogeton plants (approximately 2-4" high). The area in the Pine Valley surrounding the proposed drilling location is generally semi arid desert with prominent alluvial fans. No cut or fill will be required for the general drillsite except for the cut required for the prepared reserve pits.

SUPPLEMENT TO SURFACE USE PLAN
Bridger Petroleum Corp.
Lease No. U-22341
Bridger Federal #1
C SE $\frac{1}{4}$ Sec. 15, T26S., R17W
(1320' FSL, 1320' FEL)
Beaver County, Utah

1. Surface casing program: 13-3/8" O.D., total depth 1200'
- 1200' of 13-3/8" 48#, H-40, ST&C
2. Casingheads:
 - (a) Surface Casing
A 17 $\frac{1}{2}$ " hole will be drilled to 1200' and 13-3/8" surface pipe will be set and cemented to surface. A 12" nominal 900 series casing bowl will be installed on the 13-3/8" casing. All attached flanges and spools will be 12" 900 series including kill and fill manifold flanges which will be 3" - 900 series.
 - (b) Intermediate Casinghead
Pressure rating of flanges, etc. will be as above.
3. Intermediate Casing, size 9-5/8"

WEIGHT	LENGTH	GRADE	CONNECTION
9-5/8" - 36#	3900'	J-55	ST&C
9-5/8" - 40#	1100'	J-55	ST&C
	5000'		
4. Blow out preventers:
 - (a) Surface casing
A Shaffer double gate, 12" - 900 series ram BOP will be used. A 12" - 900 series bag BOP will be used. The fill, kill and choke lines, chokes and valves will all be rated at 3000 psi W.P.
 - (b) Intermediate casing
As above.
5. Auxilliary Equipment
 - (a) An upper kelly cock will be utilized
 - (b) A 900 series or higher pressure rated manifold will be utilized incorporating an automatic adjustable choke and a manual choke as well as a full opening 3" flare line valve.
 - (c) A 4 $\frac{1}{2}$ " TIW full opening drill string ball valve will be on the rig floor at all times.
 - (d) A flow sensor will be installed in the mud line
 - (e) A gas detector will be utilized.
6. The maximum anticipated botom hole pressure at total depth is 4000 psi.
7. A water base drilling fluid will be used. A minimum of 500 sacks of barite will be maintained on location at all times.
8. Attached is the rig inventory for the proposed drilling.

Submitted by: Helton Engineering, Inc.
Agent for Operator
210 C. A. Johnson Bldg.
Denver, Colorado 80202


Allan P. Markin
Petroleum Engineer

12/5/74

STATE OF UTAH

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

OIL & GAS CONSERVATION COMMISSION

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-22341
2. NAME OF OPERATOR Bridger Petroleum Corp.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR c/o Helton Engineering, Inc. 210 C.A. Johnson Bldg. 80202 Denver, Colo.		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1320' FSL, 1320' FEL Sec. 15		8. FARM OR LEASE NAME Federal
14. PERMIT NO. API # 43-001-30001		9. WELL NO. #1
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5205 GR		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., E., OR BLK. AND SURVEY OR AREA Sec. 15-T26S-R17W
		12. COUNTY OR PARISH Beaver
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	<input type="checkbox"/>	PULL OR ALTER CASING	<input checked="" type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	MULTIPLE COMPLETE	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	ABANDON*	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	CHANGE PLANS	<input checked="" type="checkbox"/>
(Other)	<input type="checkbox"/>		<input type="checkbox"/>

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	<input type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
FRACTURE TREATMENT	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
SHOOTING OR ACIDIZING	<input type="checkbox"/>	ABANDONMENT*	<input type="checkbox"/>
(Other)	<input type="checkbox"/>		<input type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

Due to lost circulation encountered at 530' and 853 to 976', due to caverns in the subject well it is intended to drill to a depth of 1500' to set surface casing, versus the original proposed 1200'.

Also due to the severe lost circulation, cementing to surface will not be attempted as previously proposed. Cementing the surface pipe from 1500' up to the last cavern encountered at 976' will be attempted.

*already verbally approved by Ed Gwin
will require Bond & Temperature Log*

18. I hereby certify that the foregoing is true and correct

AGENT

SIGNED

Allen Myer

TITLE

Vice President

DATE 1/8/75

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

BILLINGS OFFICE
TELE: (406) 259-4125

CALGARY OFFICE
TELE: (403) 263-0894

Helton Engineering, Inc.
CONSULTING PETROLEUM ENGINEERS AND GEOLOGISTS

SUITE 210 - C.A. JOHNSON BLDG. • 509 17TH STREET • DENVER, COLORADO 80202
TELEPHONE (303) 571-1026

January 9, 1975

State of Utah
Oil & Gas Conservation Commission
1588 West North Temple
Salt Lake City, Utah 84116

Re: Bridger Petroleum
#1 Federal
Sec. 15, T26S., R17W
Beaver County, Utah

Gentlemen:

Enclosed in triplicate is a Sundry Notice indicating "change of plans" on the captioned well.

Upon approval would you please forward copy to the above address.

Very truly yours,

HELTON ENGINEERING, INC.
AGENT FOR OPERATOR

Allan P. Markin
Allan P. Markin

AM:jh
encl/

cc: Bridger Petroleum
Samedan Oil
U.S.G.S.

May 9-311
10000

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

REMIT IN T
(Other INSTRUCTIONS
verse side)

Form approved,
Bureau No. 42-11434
U. S. DEPARTMENT OF THE INTERIOR

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		7. UNIT ABBREVIATION NAME
2. NAME OF OPERATOR Bridger Petroleum Cor.		8. FARM OR LEASE NAME Federal
3. ADDRESS OF OPERATOR c/o Helton Engineering, Inc. 210 G. a Johnson Bldg. Denver, Colo. 80202		9. WELL NO. 1
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1320' FSL, 1320' FEL		10. FIELD AND POOL, OR WILDCAT Wildcat
14. PERMIT NO.		11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA Sec. 15-T26S-R17W
15. ELEVATIONS (Show whether SV, RT, CR, etc.) 5205' Gr.		12. COUNTY OR PARISH Beaver
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input checked="" type="checkbox"/>	(Other) <input type="checkbox"/>	

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

It is proposed to drill 12 1/4" hole to a total depth of approximately 7000' and prior to setting 9-5/8" intermediate casing versus the originally proposed 5000'. This change is requested as the Ely Limestone (Permo-Pennsylvanian) was not penetrated as expected at 5000'

18. I hereby certify that the foregoing is true and correct

AGENT FOR OPERATOR
SIGNED William M. Jenkins TITLE VICE PRESIDENT DATE 2/10/75

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

Form approved,
Budget Bureau No. 42-B356.5.

OFFICE _____
LEASE NUMBER u-22341
UNIT _____

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Beaver Field Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of Feb. 1 - 7, 19 75

Agent's address Helton Engineering, Inc. Company Bridger Petroleum Co.
210 C. A. Johnson Bldg.
Denver, Colorado 80202 Signed Allen Mark
Phone 571-1026 Agent's title Petroleum Engineer

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DATE PRODUCTION	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
2-1	Depth	4928'	Drilling	12 1/4" hole in Limestone						
2-2	Depth	4997'	Drilling	12 1/4" hole in Limestone						
2-3	Depth	5195'	Drilling	12 1/4" hole in Limestone						
2-4	Depth	5460'	Drilling	12 1/4" hole in Limestone						
2-5	Depth	5765'	Drilling	12 1/4" hole in Limestone						
2-6	Depth	5900'	Drilling	8-3/4" hole in Limestone						
2-7	Depth	6056'	Drilling	8-3/4" hole in Limestone						

Note.—There were _____ runs or sales of oil; _____ M cu. ft. of gas sold;

_____ runs or sales of gasoline during the month. (Write "no" where applicable.)

Note.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-229
(January 1950)

GPO 837-082

16-55706-6 U. S. GOVERNMENT PRINTING OFFICE

C Feight, Utah Oil Conserv. Comm. 1588 W. North Temple
SLC 84116

LITHOLOGIC LOG -- BRIDGER FEDERAL No. 1

<u>Depth</u>	<u>Thickness</u>	<u>Lithology</u>
0- 531'	531'	Valley Fill, fine sand, silts, gravels.
531- 635'	104'	Tertiary Volcanics, Tv., Ls., Cg., red-black.
635- 852'	217'	Dolomite, white, lt. grey, pink.
852- 976'	124'	Cavernous and Fractured, 'Bridger's Caverns'
976-1212'	236'	Drilled without returns.
1212-1222'	10'	Core No. 1, Tertiary Volcanics, ash, ls., cg.
1222-1474'	252'	Drilled without returns.
1474-1520'	46'	Tertiary Volcanics, ash, green-grey.
1520-1765'	245'	Tertiary Volcanics, red-maroon.
1765-1890'	125'	Tertiary Volcanics, blue-green.
1890-1980'	90'	Tertiary Volcanics, light pink.
1980-2010'	30'	Tertiary Volcanics, bright orange.
2010-2070'	60'	Tertiary Volcanics, smokey grey, vitric.
2070-2320'	250'	Tertiary Volcanics, varried colors of orange.
2320-2340'	20'	Tertiary Volcanics, smokey grey, vitric.
2340-2390'	50'	Tertiary Volcanics, bright orange.
2390-2510'	120'	Tertiary Volcanics, pale green, vitric.
2510-2580'	70'	Tertiary Volcanics, white-white.
2580-2650'	70'	Tertiary Volcanics, red-ocher.
2650-2670'	20'	Tertiary Volcanics, pearly white.
2670-2740'	70'	Tertiary Volcanics, pink-orange.
2740-3000'	260'	Tertiary Volcanics, Dolomite, Conglomerate, orange-grey.
3000-3150'	150'	Dolomite, dark grey.
3150-3160'	10'	Tertiary Volcanic Conglomerate, red-orange.
3160-3520'	360'	Dolomite, white and pink.
3520-3560'	40'	Dolomite, dark grey.
3560-3570'	10'	Volcanic Conglomerate, red-orange.
3570-3820'	250'	Dolomite, dark grey.
3820-3990'	170'	Limestone, grey, with red breccia.
3990-4010'	20'	Limestone-Shale, black.
4010-4130'	120'	Limestone, somber grey.
4130-4250'	120'	Shale, black, grey, green.
4250-4340'	90'	Limestone-Shale, black..
4340-4380'	40'	Limestone, yellow brown.
4380-4470'	90'	Limestone, grey-brown.
4470-4530'	60'	Limestone, Oolitic.
4530-4550'	20'	Volcanic Conglomerate Wash, bright orange-red.
4550-4650'	100'	Limestone, Oolitic.
4650-4830'	180'	Limestone, grey-brown.
4830-4890'	60'	Limestone, Oolitic.
4890-4990'	100'	Limestone, white-pink.
4990-5020'	30'	Limestone, Oolitic, dark grey.
5020-5080'	60'	Limestone, white-pink-yellow.
5080-5100'	20'	Limestone Breccia, red-orange.
5100-5140'	40'	Limestone, white.
5140-5360'	220'	Limestone, dark grey to black.
5360-5410'	50'	Limestone, Oolitic, with red-orange breccia.
5410-5500'	90'	Limestone, white.
5500-5610'	110'	Limestone, white with orange breccia.

<u>Depth</u>	<u>Thickness</u>	<u>Lithology</u>
5610-5640'	30'	Limestone, dark grey.
5640-5680'	40'	Limestone, white with orange stain.
5680-5720'	40'	Limestone, yellow.
5720-5800'	80'	Limestone-Breccia, red-black.
5800-5830'	30'	Limestone, reddish brown, sandy.
5830-5850'	20'	Limestone, white.
5850-5870'	20'	Limestone Breccia, red-orange.
5870-5970'	100'	Limestone, Oolitic.
5970-6020'	50'	Limestone, gray, with red-brown breccia.
6020-6370'	350'	Limestone, Oolitic.
6370-6990'	620'	Limestone, Shale, dark grey to black.
6990-7040'	50'	Shale, greenish grey, silicious.
7040-7110'	70'	Limestone, white.
7110-7160'	50'	Limestone, dark grey.
7160-7310'	150'	Limestone, greyish white.
7310-7340'	30'	Limestone, pink and reddish-brown phyllitic shales.
7340-7470'	130'	Limestone, greyish white.
7470-7610'	140'	Limestone, dark grey.
7610-7675'	65'	Limestone, dark grey, sandy, with phyllitic shales.
7675-7720'	45'	Pioche Shale Fm., green, phyllitic.
7720-7740'	20'	Limestone Member of Pioche Shale, Oolitic, dark grey.
7740-8540'	800'	Pioche Shale Fm., green, quartzitic, phyllitic.

8540' Total Depth, Drillers.

8557' Total Depth, Loggers.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form approved,
Budget Bureau No. 45-2366.2.

LAND OFFICE
LEASE NUMBER U-22341.....
UNIT

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Beaver Field Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of February 21, 1975 week thru Bridger Petroleum Corp.

Agent's address c/o Helton Engineering, Inc. Company
210 C. A. Johnson Bldg.

Denver, Colorado 80202 Signed Allen M. [Signature]

Phone 303-571-1026 Agent's title Petroleum Engineer

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DATE Produced	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, reason date and result of test for gasoline content of gas)
2/8/75	Depth	6196			Drilling	8-3/4"	hole	in Limestone		
2/9/75	Depth	6546			Drilling	8-3/4"	hole	in Shale		
2/10/75	Depth	6617'			Tripping	8-3/4"	hole	in Shale and limestone		
2/11/75	Depth	6617			Pumping Air	and Mud-Lost Circulation				
2/12/75	Depth	6617'			Reaming 12 1/4"	hole to 5932 - No returns				
2/13/75	Depth	6617'			Mixing Mud	and Reaming to 6060'				
2/14/75	Rigging up	McCulloch. Ran tracer, found hole in surface casing at 820-850'								
2/15/75	Tripping,	drilled 8-3/4" hole to 6694								
2/16/75	Depth	6694'			Mixing mud					
2/17/75	Depth	6694'			Rigging up	Halliburton for cement squeeze				
2/18/75	Depth	6694'			Waiting on cement					
2/19/75	Depth	6694'			Drilling cement.	Lost returns				
2/20/75	Mixing mud and lost circulation material (ran Lynes Packer to 1221' on 9-5/8" casing)									
2/21/75	Mixing mud and ran into condition hole. 90% returns									

Norm.—There were _____ runs or sales of oil; _____ M cu. ft. of gas sold;

_____ runs or sales of gasoline during the month. (Write "no" where applicable.)

Norm.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN THE REVERSE SIDE
(Other instructions on reverse side)Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-22341

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal

9. WELL NO.

#1

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA

Sec15-26S-17W

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

5205' GR, 5225' K.B.

12. COUNTY OR PARISH

Beaver

13. STATE

Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETION

ABANDON*

CHANGE PLANS

X

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Present condition of well: 13-3/8" surface casing at 1468', top annular cement at 1100'. Hole in casing at 800' 9/58" casing at 4411'; stuck going in hole, cemented with log top cement at 3886'. 12 1/4" hole to 6357' 8-3/4" hole to T.D. of + 8050'

Proposed abandonment program:

Spot 100' plug across shoe of 9-5/8" casing from 4425'. Determine freepoint and recover 9-5/8" casing.
Spot 100' plug across 9-5/8" stub. (25' in and 75' on top)
Attempt freepoint and recovery of 13-3/8" casing. If successful spot 100' plug in stub or below hole at 800'.
Form bridge at 85' and spot 50' plug in 20" conductor.
Set 10-20' surface plug with abandonment marker.
Fill in rathole and mousehole and clean up location.
Abandonment of adjacent water well will follow.

Verbal approval of above received from Mr. Ed Gynn, U.S.G.S. 3/11/75.

18. I hereby certify that the foregoing is true and correct

SIGNED

Agent for Operator

(This space for Federal or State office use)

TITLE

Drilling Engineer

DATE

3/12/75

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form approved.
Budget Bureau No. 43-4344-2

LAND OFFICE
LEASE NUMBER
UNIT

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Beaver Field Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the ~~XXXXX~~ of Thru March 4, 1975, Bridger Petroleum Corp.

Agent's address c/o Helton Engineering, Inc. Company
210 C. A. Johnson Bldg.
Denver, Colorado 80202 Signed Allen Munkin

Phone (303) 571-1026 Agent's title Petroleum Engineer

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DATE PRODUCTION	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and results of test for gasoline content of gas)
2/22/75	Depth	6694'			Washing with Underreamer					
2/23/75	Depth	6694'			Cleaning to bottom with 8-3/4" bit					
2/24/75	Depth	6694'			Working thru bridge at 1802' with Underreamer					
2/25/75	Depth	6681' (corrected)			Circ. and condition mud on bottom with 8-3/4" bit					
2/26/75	Depth	6681'			Logging, Dual Induction, Comp. Neutron Density Deviation Survey					
2/27/75	Depth	6681'			Laying down drill pipe, prep to Underream					
2/28/75	Depth	6681'			Trip to replace Underreamer					
3/1/75	Depth	6681'			Attempt to release Lynes packer					
3/2/75	Depth	6681'			Running 9-5/8" casing. Set at 4411' due to stuck pipe					
3/3/75	Depth	6681'			Waiting on Cement. Prep to run Temp. survey					
3/4/75	Depth	6736'			Drilling. Cement top at 3885' Pressure tested blind rams, pipe rams and Hydril B.O.P's to 2000 psi. All held OK					

Note.—There were runs or sales of oil; M cu. ft. of gas sold;

..... runs or sales of gasoline during the month. (Write "no" where applicable.)

Note.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

Form approved.
Budget Bureau No. 45-2356-5.
LAND OFFICE
LEASE NUMBER ..U-22341.....
UNIT

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Beaver Field Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of March 4, 1975, thru March 22, 1975

Agent's address Helton Engineering, Inc. Company Bridger Petroleum Co.
616 Metropolitan Bldg.

Denver, Colorado 80202 Signed

Phone 571-1026 Agent's title Petroleum Engineer

DATE AND H OF M	TWP.	RANGE	WELL NO.	Date Produced	BARRELS OF OIL	GRAVITY	Cu. Ft. of Gas (in thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If None, so state)	REMARKS (If drilling, depth; if shut down, cause; date and results of test for gasoline content of gas)
3/5/75		Depth	6953'		Drilling in		Limestone			
3/6/75		Depth	7150'		Drilling in		Limestone			
3/7/75		Depth	7287'		Drilling in		Limestone			
3/8/75		Depth	7475'		Drilling in		Limestone			
3/9		Depth	7667'		Drilling in		Limestone			
3/10		Depth	7833'		Drilling in		Limestone			
3/11		Depth	7937'		Drilling in		Pioche Shale			
3/12		Depth	8035'		Drilling in		Pioche Shale			
3/13		Depth	8093'		Drilling in		Pioche Shale			
3/14		Depth	8192'		Drilling in		Pioche Shale			
3/15		Depth	8221'		Reaming at		8000'			
3/16		Depth	8283'		Drilling in		Pioche Shale			
3/17		Depth	8391'		Surveying					
3/18		Depth	8506'		Drilling in		Pioche Shale			
3/19		Depth	8540'		T.D.					
3/20		Depth	8540'		T.D. attempting to cut off casing					
3/21		Depth	1390'		P.B.T.D. preparing to P.B. at 900'					
3/22					Plugged and Abandoned		Rig Released at 3/21/75			

NOTE.—There were runs or sales of oil; M cu. ft. of gas sold;

..... runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Helton Engineering, Inc.

CONSULTING PETROLEUM ENGINEERS AND GEOLOGISTS
SUITE 616 METROPOLITAN BLDG. • 1612 COURT PLACE • DENVER, COLORADO 80202
TELEPHONE (303) 571-1026

September 22, 1975

State of Utah
Dept. of Natural Resources
1588 West North Temple
Salt Lake City, Utah 84116

Attn: Scheree Wilcox

Gentlemen:

Please accept our apology for not forwarding the Monthly Report of Operations for the Bridger #1 Federal in Beaver County, Utah at an earlier date. We have had some confusion about processing our records and have been sending the information to the U.S.G.S. The enclosed copies of those reports should bring your files up to date.

Again please excuse the delay.

Very truly yours,

J. Williamson

J. Williamson for
A. P. Markin
Vice President-Engineering

AM:jw
encls/



CALVIN L. RAMPTON
Governor

OIL, GAS, AND MINING BOARD

GORDON E. HARMSTON
Executive Director,
NATURAL RESOURCES

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL, GAS, AND MINING

1588 West North Temple
Salt Lake City, Utah 84116
(801) 533-5771

January 29, 1976

GUY N. CARDON
Chairman

CHARLES R. HENDERSON
ROBERT R. NORMAN
JAMES P. COWLEY
HYRUM L. LEE

CLEON B. FEIGHT
Director

Bridger Pet.
c/o Helton Engineering Inc.
210 C. A. Johnson Bldg.
Denver, Colorado 80202

Re: Well No. #1 Fed.
Sec. 15, T. 26S, R. 17W
Beaver County, Utah

Gentleman:

This letter is to advise you that the Well Completion or Recompletion Report and Log for the above referred to well is due and has not been filed with this office as required by our rules and regulations.

Please complete the enclosed Form OGC-3 in duplicate, and forward them to this office as soon as possible.

Thank you for your cooperation relative to the above.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

KATHY OSTLER
RECORDS CLERK

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYPERMIT IN TR
(Other instruct.
verse side)Form approved,
Budget Bureau No. 43-21424.
A. LEASE ORIGINATOR AND SERIAL NO.

U-22341

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Dry Hole	7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR Bridger Petroleum Corp.	8. FARM OR LEASE NAME Federal
3. ADDRESS OF OPERATOR c/o Helton Engineering, Inc. 210 C. A. Johnson Bldg., Denver, Colorado 80202	9. WELL NO. 1
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1329' FSL, 1320' FEL	10. FIELD AND POOL, OR WILDCAT Wildcat
11. ELEVATIONS (Show whether ss, sv, or, etc.) 5205' Gr., 5225' K.B.	11. SEC., T., R., M., OR BLM, AND SURVEY OR AREA Sec. 15-26S-17W
12. COUNTY OR PARISH Beaver	13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETION <input type="checkbox"/>	FRACURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	(Other) <input type="checkbox"/>

17. SUMMARY OF PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Total depth 8540', 8-3/4" hole. Gel-water mud in hole; 9.0#/gal, 42 viscosity.
Plug #1: spotted thru drill pipe with 57 sx construction cement from 4430-4330'.

Freepointed and jet-cut 9-5/8" casing recovering from 2050'. Fluid level in hole at 606' due to hole in 13-3/8" casing at 800'.

Plug #2: spotted thru drill pipe with 97 sx construction cement from 2075-1975'

Plug #3: spotted thru drill pipe with 110 sx construction cement from 1490-1390'
Pulled 13-3/8" casing apart at worn pin and recovered from 490'.
Ran in hole with drill pipe and found solid bridge at 490'.

Plug #4: Spotted thru drill pipe with 152 sx construction cement from 490-390'

Plug #5: dumped from surface onto cement basket bridge at 85' in 20" conductor pipe with 100 sx construction cement from 85' to 35'.

Cut off 20" conductor pipe 2' below ground level, hung cement basket bridge at 12' below ground level and filled to top conductor with 20 sx construction cement. Set abandonment marker in the cement and welded to top of 20" conductor pipe. Work completed 3-21-75.

Dry water well located 225' due south of main hole was abandoned as follows:
Hole open to Total Depth of 585'. Dumped 35 sx extra thick construction cement for 100' plug from 585-485'. Cut 8-5/8" surface casing off 2' below ground level. Hung off cement basket bridge at 12' and filled casing to surface with 5sx construction cement. Welded plate on casing and covered with dirt. Work completed 3-21-75/ BLM personnel from Fillmore, Utah have been on location and will supervise cleanup and restoration proceedings.

SIGNED Agent for OperatorTITLE Drilling EngineerDATE 3/26/75

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

HELTON ENGINEERING Inc.

CORE DESCRIPTION

BRIDGER #1 FEDERAL

Core # 1: 1212-1222 Tertiary
(Interval) (Formation)

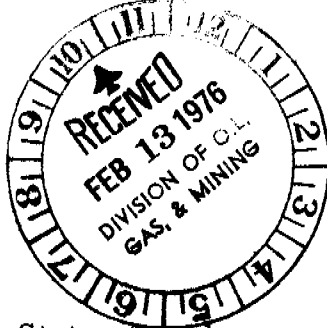
Recovered: 10 feet

Unit #	Interval	Footage	Lithology
	1212-19.5	7.5	Pyroclastic conglomerates,
			greyish white to greenish grey
			volcanic ash, fine to very
			fine grained matrix, calc,
			soft, friable, w/red, white,
			black volcanic fragments,
			subangular to round 1/4-3 CM
			w/some black ang. aphanitics
			1% limestone grey & white
			banding
	1219.5-22.0	2.5	Vol. ash cong. as above
			matrix, 60% black aphanitic
			0.5-19 CM, 10% blk, drk grn,
			red, white vol. frag.
			0.5-9 CM. Ang. to sub-rnded
			w/greenish grey clay in vugs
			& seams.

Helton Engineering & Geological Services, Inc.

CONSULTING PETROLEUM ENGINEERS AND GEOLOGISTS

SUITE 616 METROPOLITAN BLDG. • 1612 COURT PLACE • DENVER, COLORADO 80202
TELEPHONE (303) 571-1026



February 11, 1976

State of Utah
Dept. of Natural Resources
1588 West North Temple
Salt Lake City, Utah 84116

Attn: Division of Oil, Gas & Mining
Kathy Ostler
Records Clerk

Re: Bridger Federal #1
Sec. 15, T26S, R17W
Beaver County, Utah

Gentlemen:


Attached you will find 2 copies each of the Notice of Intention to Abandon, Subsequent Report of Abandonment, and Well Completion or Recompletion Report and Log, as submitted to the U.S.G.S.

On September 22, 1975 you were submitted copies of Drilling Progress Reports.

We again apologize for any misunderstanding or inconvenience. We assume that the file can now be closed, however, please advise if otherwise.

Very truly yours,

HELTON ENGINEERING & GEOLOGICAL
SERVICES, INC.


G. D. Wiley

GDW/bd
Encls.

CALVIN L. RAMPTON
Governor



OIL, GAS, AND MINING BOARD

GORDON E. HARMSTON
Executive Director,
NATURAL RESOURCES

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING
1588 West North Temple
Salt Lake City, Utah 84116
March 8, 1976

GUY N. CARDON
Chairman

CHARLES R. HENDERSON
ROBERT R. NORMAN
JAMES P. COWLEY
HYRUM L. LEE

CLEON B. FEIGHT
Director

Bridger Pet. Corp.
c/o Helton Engineering, Inc.
210 C. A. Johnson Bldg.
Denver, Colorado

Re: Well No. Federal #1
Sec. 15, T. 26S, R. 17W
Beaver County, Utah

Gentlemen:

In checking our files, the well completion report for the above mentioned well was missing. If you could please send this office a copy of this report, it would greatly be appreciated.

Thank-you,

DIVISION OF OIL, GAS AND MINING

KATHY OSTLER
RECORDS CLERK

*Find this
for me*

3/25/76

Enclosed is the U.S.G.S. "Sundry Notices and Reports on Wells" of the above captioned well.

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☒ Other _____

b. TYPE OF COMPLETION: NEW WELL ☐ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☒ DIFF. RESVR. ☐ Other _____

2. NAME OF OPERATOR
Bridger Petroleum Corp. *Poonos*

3. ADDRESS OF OPERATOR
c/o Helton Engineering, Inc. *1612 Court Place*
Suite 616, Metropolitan Bldg., Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State regulations)
At surface 1320' FSL, 1320' FEL
At top prod. interval reported below
At total depth
Approx. 1040' FSL
1560' FEL

14. PERMIT NO. _____

5. LEASE DESIGNATION AND SERIAL NO.
U-22341

6. IF INDIAN, ALLOTTEE OR TRIBE NAME _____

7. UNIT AGREEMENT NAME _____

8. FARM OR LEASE NAME
Federal

9. WELL NO. _____

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
Section 15
T 26 S: R 17 W

12. COUNTY OR PARISH
Beaver

13. STATE
Utah

15. DATE SPUDDED 12-28-74 16. DATE T.D. REACHED 3-18-75 17. DATE COMPL. (Ready to prod.) 3-21-75 18. ELEVATIONS OF AKB, RT, GR, ETC.)* 5223 R. B. 19. ELEV. CASINGHEAD 5205

20. TOTAL DEPTH, MD & TVD 8540 MD 21. PLUG, BACK T.D., MD & TVD surface 22. IF MULTIPLE COMPLEMENTS, HOW MANY* 3 23. INTERVALS DRILLED BY ROTARY TOOLS 0-8540 CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
None

25. WAS DIRECTIONAL SURVEY MADE
yes

26. TYPE ELECTRIC AND OTHER LOGS RUN
Dual Laterolog, BHC Sonic, Dipmeter, FDC

27. WAS WELL CORED
yes

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
20"		85	24	grouted to surface	--
13-3/8"	48, 61	1468	17-1/2	540 sx	490
9-5/8"	36, 40	4411	12-1/4	250 sx	2050

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
None				

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
None		

31. PERFORATION RECORD (Interval, size and number)
None

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
None	

33.* PRODUCTION

DATE FIRST PRODUCTION None PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) _____ WELL STATUS (Producing or shut-in) _____

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO

FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) _____ TEST WITNESSED BY _____

35. LIST OF ATTACHMENTS
1 copy ea. DIL, FDC and BHC Logs; 2 ea. Directional, 2 ea. Lithologic Log, 2 ea.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records core description

SIGNED *SD Wiley* TITLE Drilling Engineer DATE May 17, 1976

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Tertiary	1212	1222	Core #1, Tertiary Volcanics

38.

GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Vally fill	surface	
Tertiary volcanics	531	
Dolomites and Limestones	3160	
Pioche Shale	7675	
Lower Cambrian		



Schlumberger

DIRECTIONAL LOG
COMPUTED

COUNTY FIELD or LOCATION WELL COMPANY	BEAVER	BRIDGER PET. LTD.	
	WILDCAT		
	FEDERAL #1		
	COMPANY BRIDGER PET. LTD.		
COMPANY		BRIDGER PETROLEUM LIMITED	
WELL		FEDERAL NO. 1	
FIELD		WILDCAT	
COUNTY		BEAVER	STATE UTAH
LOCATION		Other Services:	
Sec. 15 Twp. 26S Rge. 17W			
Permanent Datum: GL		Elev.: 5205	
Log Measured From KB		18 Ft. Above Perm. Datum	
Drilling Measured From KB		Elev.: K.B. 5223 D.F. ---- G.L. 5205	
Date	2-27-75		
Run No.	ONE		
Depth Driller	6694 - (6681)		
Depth Logger	6674		
Btm. Log Interval	6673		
Top Log Interval	1480		
Depth intervals between shots -	100'		
Casing Driller	13-3/8@1469	@	@
Casing Logger	----		@
Bit Size	12-1/4 TO 6282--8-3/4 TO TD		
Type Fluid in Hole	F.G.M.		
	FULL		
Dens.	8.8	92	
pH	10	8.0 ml	ml
Source of Sample	CIRC.		
Rinf. u Meas. Temp.	4 96 @ 67 °F	@ °F	@ °F
Rm. @ BHT	.63 @ 142 °F	@ °F	@ °F
Time Since Circ.	25 HRS.		
Max. Rec. Temp.	142 °F	°F	°F
Equip.	7683	VERNAL	
Recorded By	ENYEART		
Witnessed By	CRAWFORD-HELTON		

ANY DIRECTIONAL CORRECTIONS MADE FROM THE DEPTH RECORDS
 ASSUMED AS APPROXIMATED ONLY. THE DEPTH RECORDS ARE NOT
 INDICATIVE OF THE DEPTH OF THE WELL. THEREFORE, WE DO
 NOT AND CANNOT GUARANTEE THE ACCURACY OF ANY DIRECTIONAL
 CORRECTIONS, AND WE SHALL NOT BE LIABLE OR RESPONSIBLE FOR ANY
 LOSS, COST, DAMAGES, OR EXPENSES INCURRED OR SUSTAINED THAT MAY
 RESULT FROM ANY SUCH CORRECTIONS.

ORIGIN 1480

3000

4000

5000

6000

6674



SCALE: 1" = 50'

COMPANY BRIDGER PETROLEUM LIMITED

WELL FEDERAL NO. 1

FIELD WILDCAT

COUNTY DEVER

STATE UTAH

SCHL. FR 6673

SCHL. TD 6674

DRLR TD 6694

Elev:

KB 5223

DF

GL 5205

POOR COPY